



**California Public Utility Commission**  
**May 23, 2019 Workshop**



# Interconnection Issues

## 1. Uniform program – across both utilities

- Same study process
- Same contracts



## 2. Uniform Flow rate – based on hours of operation

- Systems (upgraders, compressors, interconnections) are built for growth – decreasing emissions, improving economies.
- Biological process – with significant seasonal variation
- Equipment has minimum flow rates. Result only a number of hours a day operating, in the winter and initial years
- Consistent flow rates in contracts need to be limited to hours of operation, not requiring operations 24 hours/day



# Interconnection Issues

## 3. Imbalances – need to watch

- Expectation – CP agreement provides needed flexibility, including balancing across projects and with outside parties
- Concern – over delivery: utility will buy the excess gas. Financial penalty is not the issue. Issue is what happens to the credits

## 4. Btu Districts

- Understandable – but expensive and not needed in transmission line interconnections

## 5. Transparency into long-term demand

- Rural pipelines. Pressure to reduced natural gas use. Don't want stranded assets/failed projects



# Interconnection Issues

6. Expansion of AB 2313 program: 50% of interconnection costs up to \$5MM for a dairy cluster. Projects need certainty

- Significant funding expansion
- Queue, transparency – know you will receive reimbursement
- Fund dairy gathering line expansions –
  - Match funding after initial build
  - Leverage infrastructure
  - Benefit smaller dairy projects

7. Maintain flexibility on EPC

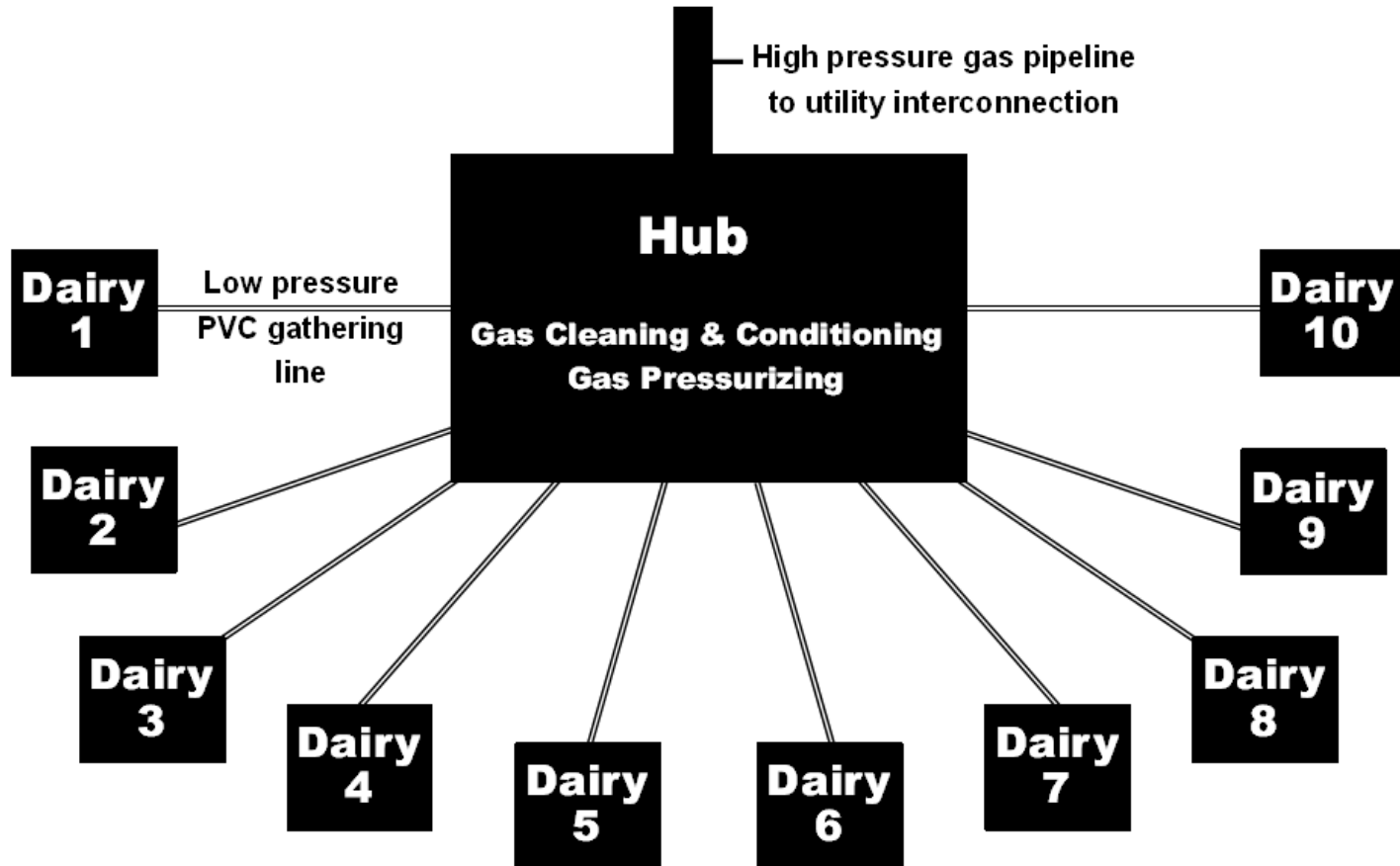
- Provides an option to projects
- Utility helpful long-lead equipment ordering





# Hub (gas cleanup) & Spoke (dairy digester)

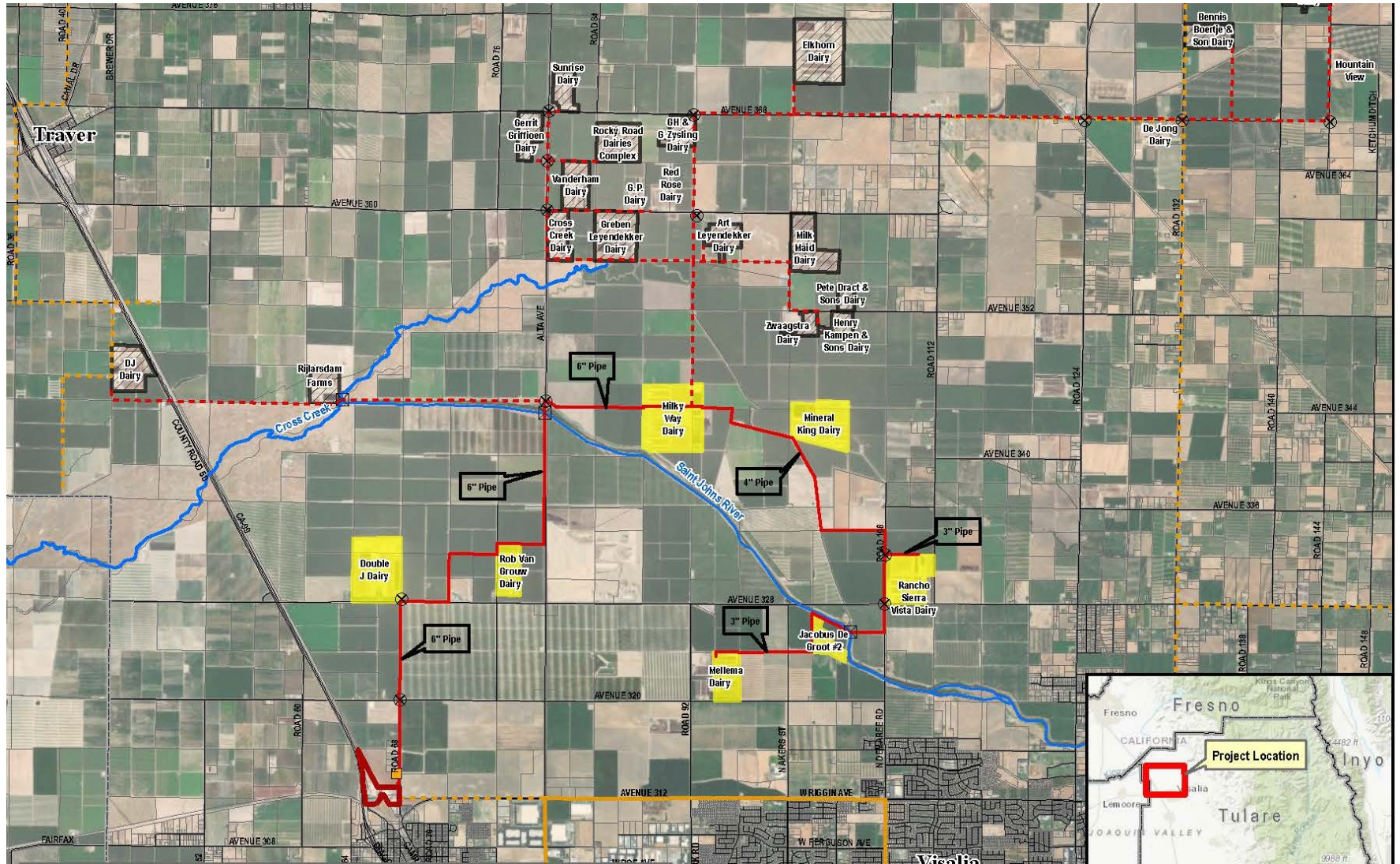
## Hub & Spoke Model







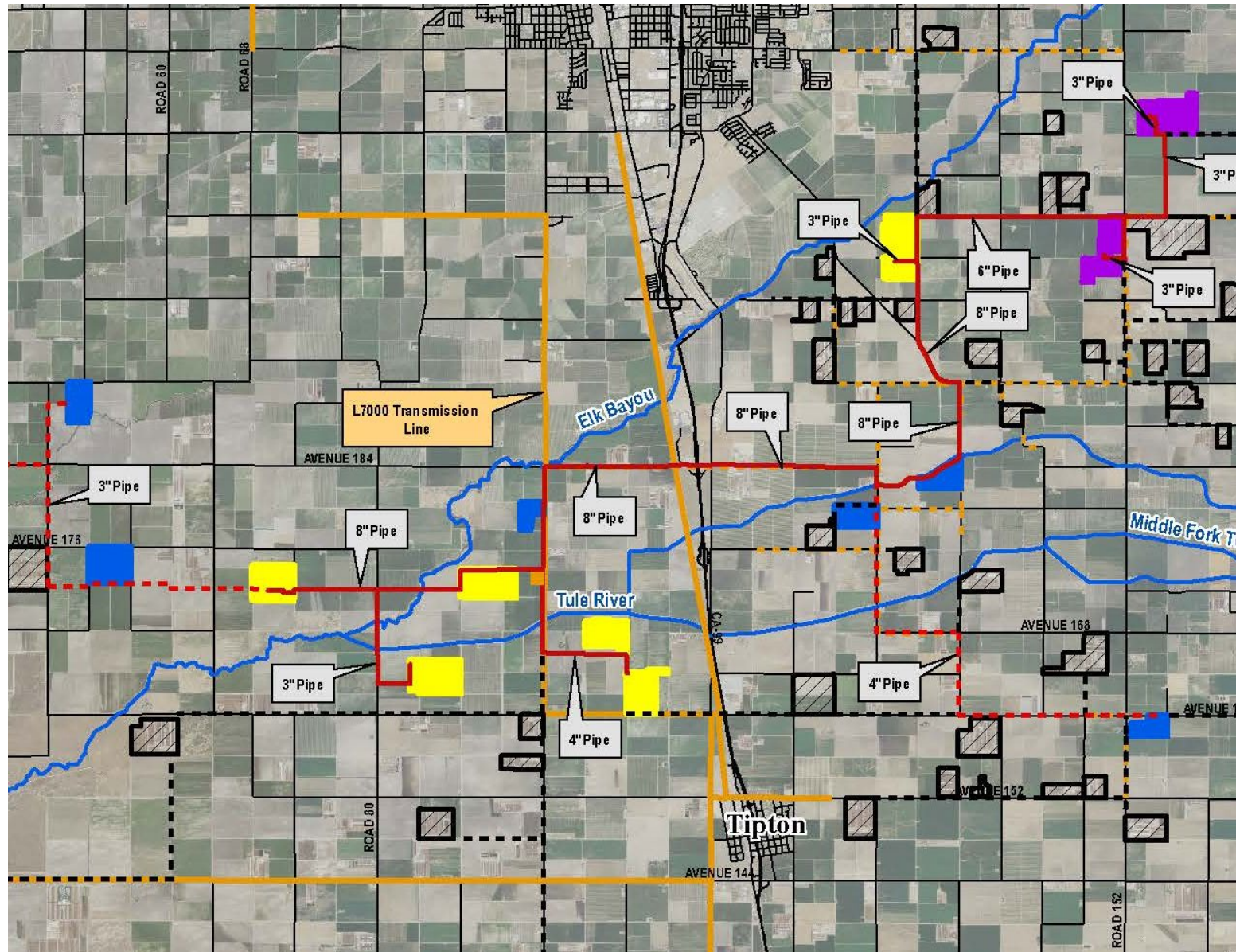
# Cluster – North Visalia







# Cluster – South Tulare







# Cluster – Buttonwillow

